

Regional HIV/AIDS Epidemiologic Profile of Suffolk County, Massachusetts: 2012

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases who were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2012, this resulted in the removal of 2,924 HIV/AIDS cases, of which 808 have died and 2,116 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2011: Suffolk County, Massachusetts²

	N	%
People Living with HIV/AIDS	5,700	57%
People Reported with HIV or AIDS who are Deceased	4,314	43%
Total Number of People Reported with HIV Infection or AIDS	10,014	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 2. Average annual rate of HIV infection diagnosis from 2008 to 2010 and HIV/AIDS prevalence rate on 12/31/11¹: Suffolk County, Massachusetts²

Average annual HIV diagnosis rate from 2008–2010	Average rate per 100,000	Average annual number of HIV diagnoses
Suffolk County, MA	26.3	190.0
Massachusetts Total	10.3	664.7

HIV/AIDS prevalence rate on 12/31/11	Rate per 100,000	Number of people living with HIV/AIDS
Suffolk County, MA	789.4	5,700
Massachusetts Total	277.5	18,170

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2001–2010, Suffolk County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2001	4,117	119	304
2002	4,353	109	344
2003	4,539	106	292
2004	4,715	88	263
2005	4,909	83	274
2006	5,055	89	234
2007	5,176	76	197
2008	5,301	76	201
2009	5,421	61	181
2010	5,546	63	188

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 4. People diagnosed with HIV infection from 2008–2010¹ and people living with HIV/AIDS on December 31, 2011 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Suffolk County, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	434	76%	4,342	76%
Female	136	24%	1,358	24%
Place of Birth:	N	%	N	%
US	357	63%	3,889	68%
Puerto Rico/US Dependency ³	34	6%	338	6%
Non-US	179	31%	1,473	26%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	200	35%	2,302	40%
Black (non-Hispanic)	232	41%	2,210	39%
Hispanic/Latino	125	22%	1,085	19%
Asian/Pacific Islander	11	2%	86	2%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	259	45%	2,698	47%
Injection Drug Use (IDU)	38	7%	786	14%
MSM/IDU	15	3%	189	3%
Heterosexual Sex	63	11%	721	13%
Other	7	1%	109	2%
Total Undetermined	188	33%	1,197	21%
• Presumed Heterosexual Sex ⁴	61	11%	445	8%
• Undetermined ⁵	127	22%	752	13%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2011	
Under 13	5	1%	8	<1%
13 to 19	13	2%	40	1%
20 to 24	51	9%	81	1%
25 to 29	76	13%	164	3%
30 to 34	76	13%	289	5%
35 to 39	75	13%	412	7%
40 to 44	83	15%	720	13%
45 to 49	74	13%	1,130	20%
50 to 54	58	10%	1,178	21%
55 to 59	33	6%	851	15%
60+	26	5%	827	15%
Total⁶	570	100%	5,700	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-eight percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 5. People living with HIV/AIDS on December 31, 2011 by gender and race/ethnicity: Suffolk County, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	2,121	49%	181	13%
Black (non-Hispanic)	1,316	30%	894	66%
Hispanic/Latino	820	19%	265	20%
Asian/Pacific Islander	72	2%	14	1%
Total²	4,342	100%	1,358	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 6. People living with HIV/AIDS on December 31, 2011 by gender and exposure mode: Suffolk County, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	2,698	62%	N/A	N/A
Injection drug use (IDU)	516	12%	270	20%
MSM/IDU	189	4%	N/A	N/A
Heterosexual sex	231	5%	490	36%
Other	56	1%	53	4%
Total Undetermined	652	15%	545	40%
• Presumed heterosexual sex ²	N/A	N/A	445	33%
• Undetermined ³	652	15%	100	7%
Total	4,342	100%	1,358	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Suffolk County, Massachusetts¹, 2001–2010²

	Male		Female		Total
	N	%	N	%	
2001	226	74%	78	26%	304
2002	248	72%	96	28%	344
2003	204	70%	88	30%	292
2004	200	76%	63	24%	263
2005	213	78%	61	22%	274
2006	187	80%	47	20%	234
2007	158	80%	39	20%	197
2008	162	81%	39	19%	201
2009	142	78%	39	22%	181
2010	130	69%	58	31%	188

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Suffolk County, Massachusetts¹, 2001–2010²

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino		Total ³
	N	%	N	%	N	%	N
2001	111	37%	130	43%	54	18%	304
2002	116	34%	157	46%	66	19%	344
2003	101	35%	124	42%	65	22%	292
2004	91	35%	116	44%	53	20%	263
2005	98	36%	102	37%	70	26%	274
2006	95	41%	86	37%	50	21%	234
2007	78	40%	76	39%	36	18%	197
2008	80	40%	79	39%	38	19%	201
2009	60	33%	80	44%	40	22%	181
2010	60	32%	73	39%	47	25%	188

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include Asian/Pacific Islander, American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Suffolk County, Massachusetts¹, 2001–2010²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	N
2001	195	64%	9	3%	100	33%	304
2002	208	60%	14	4%	122	35%	344
2003	182	62%	19	7%	91	31%	292
2004	170	65%	9	3%	84	32%	263
2005	177	65%	17	6%	80	29%	274
2006	147	63%	11	5%	76	32%	234
2007	130	66%	9	5%	58	29%	197
2008	132	66%	11	5%	58	29%	201
2009	116	64%	13	7%	52	29%	181
2010	109	58%	10	5%	69	37%	188

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Suffolk County, Massachusetts¹, 2001–2010²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001	127	42%	38	13%	-- ⁵	-- ⁵	48	16%	-- ⁵	-- ⁵	28	9%	54	18%	304
2002	136	40%	44	13%	-- ⁵	-- ⁵	66	19%	-- ⁵	-- ⁵	25	7%	60	17%	344
2003	118	40%	31	11%	-- ⁵	-- ⁵	42	14%	-- ⁵	-- ⁵	36	12%	52	18%	292
2004	118	45%	26	10%	-- ⁵	-- ⁵	27	10%	-- ⁵	-- ⁵	34	13%	50	19%	263
2005	143	52%	21	8%	-- ⁵	-- ⁵	32	12%	-- ⁵	-- ⁵	23	8%	43	16%	274
2006	121	52%	16	7%	-- ⁵	-- ⁵	28	12%	-- ⁵	-- ⁵	21	9%	37	16%	234
2007	97	49%	20	10%	-- ⁵	-- ⁵	15	8%	-- ⁵	-- ⁵	13	7%	41	21%	197
2008	98	49%	13	6%	-- ⁵	-- ⁵	21	10%	-- ⁵	-- ⁵	16	8%	41	20%	201
2009	87	48%	11	6%	-- ⁵	-- ⁵	21	12%	-- ⁵	-- ⁵	17	9%	41	23%	181
2010	74	39%	14	7%	-- ⁵	-- ⁵	21	11%	-- ⁵	-- ⁵	28	15%	45	24%	188

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Suffolk County, Massachusetts¹, 2001–2010²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2001	105	304	35%
2002	110	344	32%
2003	95	292	33%
2004	81	263	31%
2005	84	274	31%
2006	82	234	35%
2007	63	197	32%
2008	48	201	24%
2009	52	181	29%
2010	52	188	28%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Suffolk County, Massachusetts,¹ 2008–2010²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	117	434	27%
Female	35	136	26%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	45	200	23%
Black (non-Hispanic)	74	232	32%
Hispanic/Latino	31	125	25%
Asian/Pacific Islander	2	11	18%
Place of Birth:	N	N	%
US	87	357	24%
Puerto Rico/US Dependencies ³	5	34	15%
Non-US	60	179	34%
Total⁴	152	570	27%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁴ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12